

Lower Swiftwater Creek Sub-Watershed Potential Restoration Sites

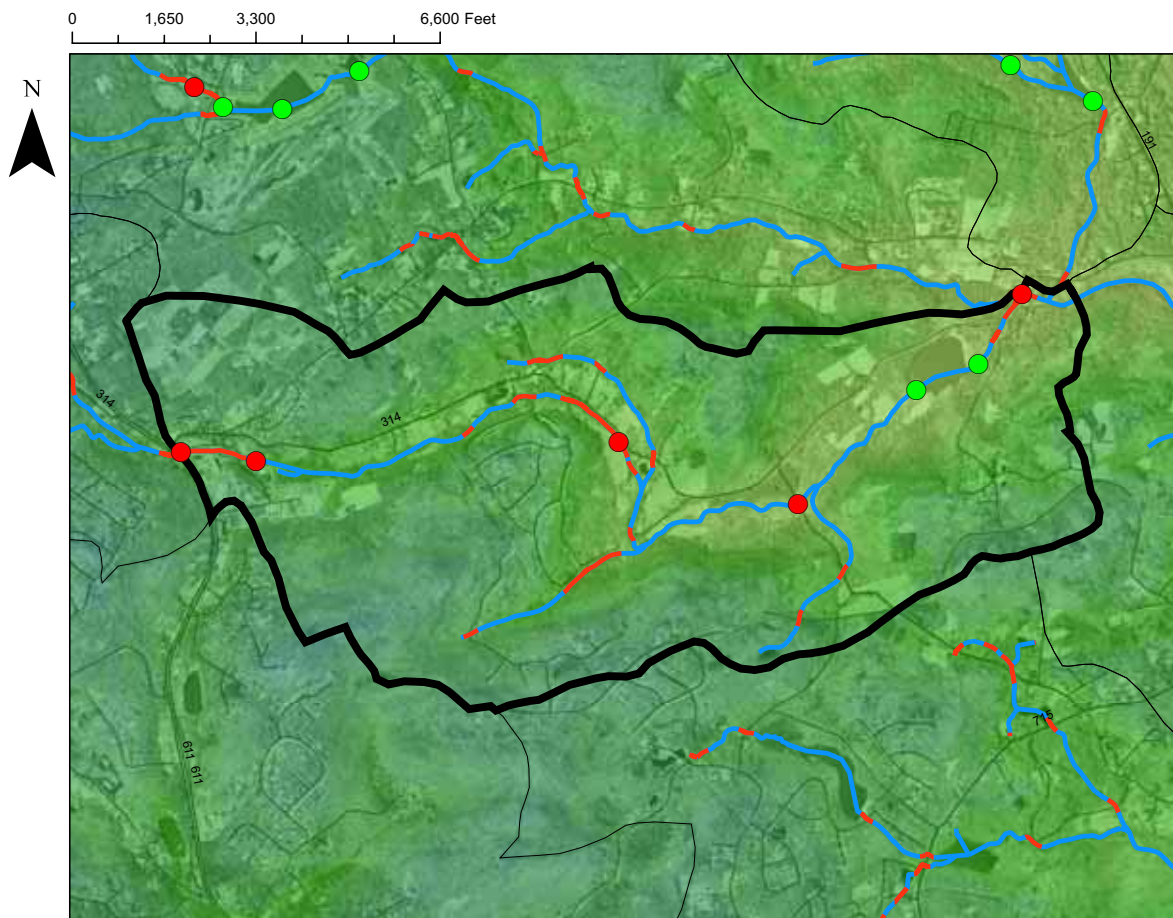


Figure 12 – Potential restoration sites in the Lower Swiftwater Creek sub-watershed. Sites were identified by means of topographic map examination; stream proximity within 150 feet of roads, bridges and culverts; aerial photo examination and field verification.

Restoration Projects

Road (5 red)

Observation

1. Swiftwater Creek at Parcel 0299 residential – bank gets brunt of erosion effects from sharp turn in creek.
2. Swiftwater Creek at Route 314 crossing – bridge effects.
3. Swiftwater Creek along Route 314 in Swiftwater, PA – road is undermined.
4. Swiftwater Creek at Aventis Pasteur – multiple crossings, proximity to roads and parking lots.
5. Swiftwater Creek at Route 611 – bridge and urban runoff.

Action

Landowner received disaster recovery funds for bank stabilization. Habitat improvements needed. Large restoration project – up to 2 miles of stream affected by backwater flooding & erosion. Stabilization and habitat improvement recommended (large project). Examine storm water runoff management at site, potential future projects with Aventis (small project). Manage highway runoff (small project).

Other (2 green)

Observation

- 6. Swiftwater Creek at Lake Swiftwater outlet – dam effects.
- 7. Swiftwater Creek upstream of Lake Swiftwater – bar deposition, sediment transport interruption.

Action

Install fish passage structure.
Detailed assessment from 314 to Lake Swiftwater, perhaps restore as part of Rt. 314 project #2.



Figure 13: Lower Swiftwater Project 1: Left bank erosion at confluence of Forest Hills Run and Swiftwater Creek. Landowner has received emergency stabilization funding, but post-stabilization habitat improvements and perhaps upstream channel realignment would improve instream conditions. This site was previously channelized, creating a 90-degree confluence of the streams and producing these erosion effects.

Figure 14 - Lower Swiftwater Project #2: Swiftwater Creek upstream of Route 314 crossing – up to 2 miles of severe erosion.



Upper Swiftwater Creek Sub-Watershed Potential Restoration Sites

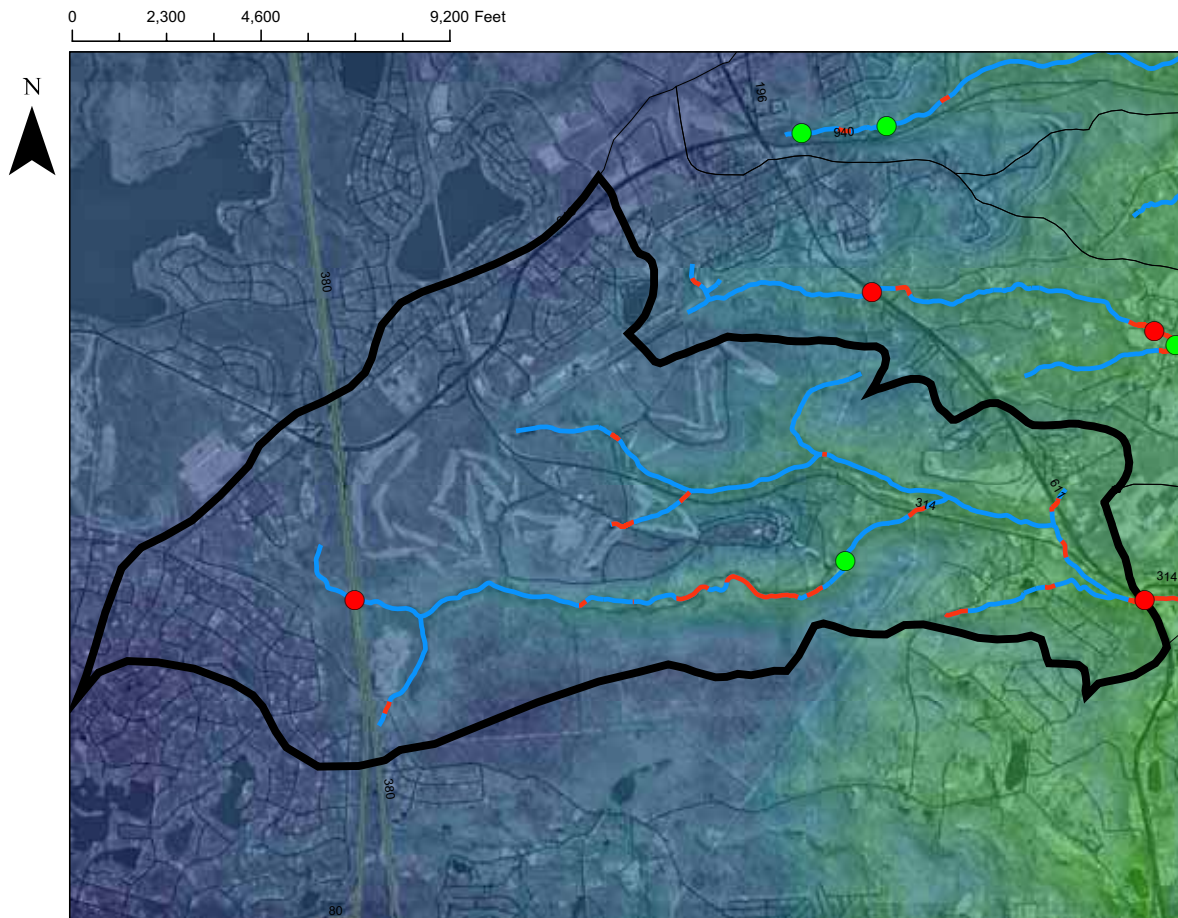


Figure 15 – Potential restoration sites in the Upper Swiftwater Creek sub-watershed. Sites were identified by means of topographic map examination; stream proximity within 150 feet of roads, bridges and culverts; aerial photo examination and field verification.

Restoration Projects

Road (1 red)

Observation

1. Swiftwater Creek headwaters at I-380 N and S: manage runoff from interstate road.

Action

Install BMPs to capture road runoff.

Other (1 green)

Observation

2. Swiftwater Creek at Ireland Hotels property – repair old dam effects.

Action

Old dams on property, 1 breached and 1 filled with sediment. Investigate old diversion structure. Possible project: remove small dam and improve local habitat.